

Amendments to the Claims:

Please amend the claims as set forth below.

1. (Currently Amended) A ~~molding~~ seat cushion, that includes polyurethane, comprising:

at least one polyurethane gel compound based on reaction products of polyols and polyisocyanates as a first material; and

at least one polyurethane foam as a second material wherein said at least one polyurethane gel and said at least one polyurethane foam are joined by ~~implicit adhesive properties~~ adhesion during production curing of said molding; one of said gel or said foam in a mold;

and wherein said at least one polyurethane gel is made from a reaction mixture including: one or more polyisocyanates; and

a mixture of a first polyol component including one or more polyols having hydroxyl numbers below 112; and a second polyol component that includes one or more polyols having hydroxyl numbers in a range between 112 to 600; with a weight ratio of said first polyol component to said second polyol component between 90:10 and 10:90;

wherein the product of the functionalities of the polyurethane-forming components is at least 5.2 and the isocyanate index lies between 15 and 60; and

wherein the materials are a seat cushion.

2. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein said molding includes an outer covering layer which is impermeable.

3. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein said molding includes an outer covering layer which is impermeable to said polyurethane gel.

4. (Currently Amended) A ~~molding~~ seat cushion according to claim 3, wherein said polyurethane foam and said polyurethane gel are arranged in at least two layers, one above another.

5. (Currently Amended) A ~~molding~~ seat cushion according to claim 4, wherein said polyurethane gel layer is partially surrounded by said polyurethane foam.

6. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein a block of said polyurethane foam is at least partially surrounded by said polyurethane gel.

7. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein said covering layer includes a film.

8. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein said covering layer includes a polyurethane film.

9. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein said covering layer includes a polyvinyl chloride film.

10. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein said covering layer includes a leather film.

11. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein said covering layer includes a micro-fiber material film.

12. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein said molding is a seat cushion.

13. (Currently Amended) A ~~molding~~ seat cushion according to claim 12, wherein a textile cover layer is located adjacent to said seat cushion.

14. - 38. (Cancelled)

39. (Currently Amended) A ~~molding~~ seat cushion according to claim 2, wherein the outer covering layer is pre-formed in a mold.

40. (Currently Amended) A ~~molding~~ seat cushion according to claim 4, wherein the polyurethane foam layer is in direct contact with the outer covering layer.

41. (Currently Amended) A ~~molding~~ seat cushion according to claim 4, wherein the polyurethane gel layer is in direct contact with the outer covering layer.

42. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein the polyurethane gel is pre-formed.

43. (Currently Amended) A ~~molding~~ seat cushion according to claim 4, wherein the polyurethane gel layer is pre-formed.

44. (Currently Amended) A ~~molding~~ seat cushion according to claim 4, wherein the polyurethane gel layer is in pre-formed sections.

45. (Currently Amendeddd) A ~~molding~~ seat cushion according to claim 1, wherein the polyurethane gel is produced from raw materials where the product of the isocyanate functionality and the functionality of the polyol component is at least 5.2.

46. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein the polyurethane gel is produced from raw materials where the product of the isocyanate functionality and the functionality of the polyol component is at least 6.5.

47. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein the polyurethane gel is produced from raw materials where the product of the isocyanate functionality and the functionality of the polyol component is at least 7.5.

48. (Currently Amended) A ~~molding~~ seat cushion according to claim 1, wherein the polyurethane gel is produced by a reaction mixture of an isocyanate and a polyol component having a mixture of:

one or more polyols having hydroxyl numbers below 112;

one or more polyols having hydroxyl numbers in a range 112 to 600, wherein a weight ratio of the one or more polyols having hydroxyl numbers below 112 to the one or more polyols having hydroxyl numbers in a range 112 to 600 lies between 90:10 and 10:90;

the isocyanate index of the reaction mixture lies in a range from 15 to 59.81; and

the product of isocyanate functionality and functionality of the polyol component is at least 6.15.

49. (Cancelled)

50. (Currently Amended) A ~~molding~~ seat cushion according to claim 48, wherein the reaction mixture further includes a catalyst.

51. (Currently Amended) A ~~molding~~ seat cushion according to claim 48, wherein the reaction mixture includes fillers.

52. (Cancelled)

53. (Currently Amended) A ~~molding~~ seat cushion according to claim 51, wherein the isocyanates for producing the polyurethane gel are of the formula



where n represents 2 to 4 and Q denotes an aliphatic hydrocarbon radical having 6 to 18 C atoms.

54. (Currently Amended) A ~~molding~~ seat cushion according to claim 51, wherein the isocyanates for producing the polyurethane gel are of the formula



where n represents 2 to 4 and Q denotes an cycloaliphatic hydrocarbon radical having 4 to 15 C atoms.

55. (Currently Amended) A ~~molding~~ seat cushion according to claim 51, wherein the isocyanates for producing the polyurethane gel are of the formula



where n represents 2 to 4 and Q denotes an aromatic hydrocarbon radical having 6 to 15 C atoms.

56. (Currently Amended) A ~~molding~~ seat cushion according to claim 51, wherein the isocyanates for producing the polyurethane gel are of the formula



where n represents 2 to 4 and Q denotes an araliphatic hydrocarbon radical having 8 to 15 C atoms.

57. (Currently Amended) A ~~molding~~ seat cushion according to claim 53, wherein the isocyanates for producing the polyurethane gel are in pure form.

58. (Currently Amended) A ~~molding~~ seat cushion according to claim 53, wherein the isocyanates for producing the polyurethane gel have conventional isocyanate modifications.

59. (Currently Amended) A ~~molding~~ seat cushion according to claim 58, wherein the conventional isocyanate modification includes urethanisation.

60. (Currently Amended) A ~~molding~~ seat cushion according to claim 58, wherein the conventional isocyanate modification includes allophantisiation.

61. (Currently Amended) A ~~molding~~ seat cushion according to claim 58, wherein the conventional isocyanate modification includes biuretisation.

62. (Currently Amended) A ~~molding~~ seat cushion, that includes polyurethane, comprising:

at least one unfoamed polyurethane gel compound based on reaction products of polyols and polyisocyanates as a first material; and

at least one polyurethane foam as a second material wherein said at least one polyurethane gel and said at least one polyurethane foam are joined by implicit adhesive ~~properties~~ adhesion during production of said molding curing of one of said gel or said foam in a mold;

and wherein said at least one polyurethane gel is made from a reaction mixture including: one or more polyisocyanates; and

a mixture of a first polyol component including one or more polyols having a molecular weight between 1,000 and 12,000 and an OH-number between and 20 and 112; and a second polyol component that includes one or more polyols having hydroxyl numbers in a range between 112 to 600; with a weight ratio of said first polyol component to said second polyol component between 90:10 and 10:90;

wherein the product of the functionalities of the polyurethane-forming components is at least 5.2 and the isocyanate index lies between 15 and 60; and

wherein the materials are a seat cushion.

63. (Currently Amended) A ~~molding~~ seat cushion, that includes polyurethane, comprising:

at least one polyurethane gel compounded based on a reaction products of polyols and polyisocyanates as a first material; and

at least one polyurethane foam as a second material wherein said at least one polyurethane gel and said at least one polyurethane foam are joined by implicit adhesive ~~properties~~ adhesion during production of said molding; when a reaction mixture of a polyurethane gel composition and foamable polyurethane are joined ~~during foaming and curing~~ either when, a polyurethane raw material mixture for producing of foam is foamed and cured in a mold with a preformed gel layer introduced therein, or when a polyurethane gel is ~~formed~~ cured in a mold with a pre-formed foam block placed therein;

and wherein said at least one polyurethane gel is made from a reaction mixture including:
one or more polyisocyanates; and

a polyol component consisting of one or more polyols having a molecular weight between 1,000 and 12,000 and an OH-number between 20 and 112 or a mixture of a first polyol component including one or more polyols having hydroxyl numbers below 112; and a second polyol component that includes one or more polyols having hydroxyl numbers in a range between 112 to 600; with a weight ratio of said first polyol component to said second polyol component between 90:10 and 10:90;

wherein the product of the functionalities of the polyurethane-forming components is at least 5.2 and the isocyanate index lies between 15 and 60; and

wherein the materials are a seat cushion.

64. (New) The seat cushion of claim 1 further comprising a fabric bonded to said polyurethane gel opposite said polyurethane foam.

65. (New) The seat cushion of claim 1 wherein said at least one polyurethane gel is a gel layer at least partially surrounded by said polyurethane foam.

66. (New) The seat cushion of claim 1 wherein said at least one polyurethane foam is a foam layer at least partially surrounded by said polyurethane gel.

67. (New) The seat cushion of claim 63 wherein said at least one polyurethane gel is a gel layer at least partially surrounded by said polyurethane foam.

68. (New) The seat cushion of claim 63 wherein said at least one polyurethane foam is a foam layer at least partially surrounded by said polyurethane gel.